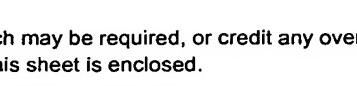


FORM PTO-1390 (Modified) U.S. PATENT AND TRADEMARK OFFICE; U.S. DEPARTMENT OF COMMERCE (REV. 2-2005)		ATTORNEY'S DOCKET NUMBER UMD-0111
TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A SUBMISSION UNDER 35 U.S.C. 371		U.S. APPLICATION NO. (If known, see 37 CFR 1.5) <b>10/538902</b>
INTERNATIONAL APPLICATION NO. PCT/US2003/034683	INTERNATIONAL FILING DATE 31 October 2003	PRIORITY DATE CLAIMED 20 December 2002
TITLE OF INVENTION <b>Compositions and Methods for Enzymatic Detachment of Bacterial and Fungal Biofilms</b>		
APPLICANT(S) FOR DO/EO/US <b>KAPLAN, Jeffrey B.</b>		
Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:		
<ol style="list-style-type: none"> <li>1. <input checked="" type="checkbox"/> This is a <b>FIRST</b> submission of items concerning a submission under 35 U.S.C. 371.</li> <li>2. <input type="checkbox"/> This is a <b>SECOND</b> or <b>SUBSEQUENT</b> submission of items concerning a submission under 35 U.S.C. 371.</li> <li>3. <input type="checkbox"/> This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (24) indicated below.</li> <li>4. <input type="checkbox"/> The US has been elected (Article 31).</li> <li>5. <input checked="" type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371 (c)(2))             <ol style="list-style-type: none"> <li>a. <input type="checkbox"/> is attached hereto (required only if not communicated by the International Bureau).</li> <li>b. <input type="checkbox"/> has been communicated by the International Bureau.</li> <li>c. <input checked="" type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US).</li> </ol> </li> <li>6. <input type="checkbox"/> An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).             <ol style="list-style-type: none"> <li>a. <input type="checkbox"/> is attached hereto.</li> <li>b. <input type="checkbox"/> has been previously submitted under 35 U.S.C. 154(d)(4).</li> </ol> </li> <li>7. <input checked="" type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371 (c)(3))             <ol style="list-style-type: none"> <li>a. <input type="checkbox"/> are attached hereto (required only if not communicated by the International Bureau).</li> <li>b. <input type="checkbox"/> have been communicated by the International Bureau.</li> <li>c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired.</li> <li>d. <input checked="" type="checkbox"/> have not been made and will not be made.</li> </ol> </li> <li>8. <input type="checkbox"/> An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).</li> <li>9. <input type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371 (c)(4)).</li> <li>10. <input type="checkbox"/> An English language translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371 (c)(5)).</li> <li>11. <input type="checkbox"/> A copy of the International Preliminary Examination Report (PCT/IPEA/409).</li> <li>12. <input checked="" type="checkbox"/> A copy of the International Search Report (PCT/ISA/210).</li> </ol>		
Items 13 to 23 below concern document(s) or information included:		
<ol style="list-style-type: none"> <li>13. <input checked="" type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98.</li> <li>14. <input type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.</li> <li>15. <input type="checkbox"/> A <b>FIRST</b> preliminary amendment.</li> <li>16. <input type="checkbox"/> A <b>SECOND</b> or <b>SUBSEQUENT</b> preliminary amendment.</li> <li>17. <input type="checkbox"/> A substitute specification.</li> <li>18. <input type="checkbox"/> A power of attorney and/or change of address letter.</li> <li>19. <input checked="" type="checkbox"/> A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821 - 1.825.</li> <li>20. <input type="checkbox"/> A second copy of the published International Application under 35 U.S.C. 154(d)(4).</li> <li>21. <input type="checkbox"/> A second copy of the English language translation of the International Application under 35 U.S.C. 154(d)(4).</li> <li>22. <input checked="" type="checkbox"/> Express Mail Label No. <b>EV626224792US</b></li> <li>23. <input checked="" type="checkbox"/> Other items or information:             <ol style="list-style-type: none"> <li>1) Courtesy copy of the International Application;</li> <li>2) Statement to support filing and submission in accordance with 37 CFR 1.821-1.825;</li> <li>3) An unexecuted oath or declaration of the inventor(s) (35 U.S.C. 371 (c)(4));</li> <li>4) Return post card.</li> </ol> </li> </ol>		

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

U.S. APPLICATION NO (if known) see 37 CFR 1.5 <b>107558902</b>		INTERNATIONAL APPLICATION NO. <b>PCT/US2003/034683</b>		ATTORNEY'S DOCKET NUMBER <b>UMD-0111</b>																																																																																						
<p>The following fees are submitted:</p> <table border="1"> <tr> <td>24. <input checked="" type="checkbox"/> Basic national fee . . . . .</td> <td>\$300</td> <td><b>CALCULATIONS</b></td> <td><b>PTO USE</b></td> <td></td> </tr> <tr> <td>25. <input checked="" type="checkbox"/> Examination fee If International preliminary examination report prepared by USPTO and all claims satisfy provisions of PCT Article 33(1)-(4) . . . . .</td> <td>\$100</td> <td>\$</td> <td>\$200.00</td> <td></td> </tr> <tr> <td>All other situations . . . . .</td> <td>\$200</td> <td></td> <td></td> <td></td> </tr> <tr> <td>26. <input checked="" type="checkbox"/> Search fee Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the USPTO as an International Searching Authority . . . . .</td> <td>\$100</td> <td></td> <td></td> <td></td> </tr> <tr> <td>International Search Report prepared and provided to the Office . . . . .</td> <td>\$400</td> <td></td> <td></td> <td></td> </tr> <tr> <td>All other situations . . . . .</td> <td>\$500</td> <td>\$</td> <td>\$100.00</td> <td></td> </tr> <tr> <td colspan="2"><b>TOTAL OF 24, 25 and 26 =</b></td> <td>\$</td> <td>\$600.00</td> <td></td> </tr> </table> <p><input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing or computer program listing filed in an electronic medium). The fee is \$250 for each additional 50 sheets of paper or fraction thereof.</p> <table border="1"> <thead> <tr> <th>Total Sheets</th> <th>Extra Sheets</th> <th>Number of each additional 50 or fraction thereof (round up to a whole)</th> <th>RATE</th> </tr> </thead> <tbody> <tr> <td>51 - 100 =</td> <td>0 /50 =</td> <td>0</td> <td>x \$250.00 . \$ 0.00</td> </tr> </tbody> </table> <p>Surcharge of \$130.00 for furnishing the oath or declaration later than months from the earliest claimed priority date (37 CFR 1.492(e)).</p> <table border="1"> <thead> <tr> <th>CLAIMS</th> <th>NUMBER FILED</th> <th>NUMBER EXTRA</th> <th>RATE</th> </tr> </thead> <tbody> <tr> <td>Total claims</td> <td>50 - 20 =</td> <td>30</td> <td>x \$50.00 \$ 1,500.00</td> </tr> <tr> <td>Independent claims</td> <td>10 - 3 =</td> <td>7</td> <td>x \$200.00 \$ 1,400.00</td> </tr> <tr> <td colspan="2">MULTIPLE DEPENDENT CLAIMS (if applicable)</td> <td><input checked="" type="checkbox"/></td> <td>+ \$360.00 \$ 360.00</td> </tr> <tr> <td colspan="4"><b>TOTAL OF ABOVE CALCULATIONS =</b></td> <td>\$ 3,860.00</td> </tr> </tbody> </table> <p><input checked="" type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced by 1/2.</p> <table border="1"> <thead> <tr> <th colspan="2"><b>SUBTOTAL =</b></th> <th>\$ 1,930.00</th> </tr> </thead> <tbody> <tr> <td colspan="2">Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(f)).</td> <td>\$ 0.00</td> </tr> <tr> <td colspan="2"><b>TOTAL NATIONAL FEE =</b></td> <td>\$ 1,930.00</td> </tr> <tr> <td colspan="2">Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40 per property +</td> <td>\$ 0.00</td> </tr> <tr> <td colspan="2"><b>TOTAL FEES ENCLOSED =</b></td> <td>\$ 1,930.00</td> </tr> <tr> <td colspan="2"></td> <td><b>Amount to be</b> \$</td> </tr> <tr> <td colspan="2"></td> <td><b>Amount to be</b> \$</td> </tr> </tbody> </table> <p>a. <input type="checkbox"/> A check in the amount of \$ _____ to cover the above fees is enclosed.</p> <p>b. <input type="checkbox"/> Please charge my Deposit Account No. _____ in the amount of _____ to cover the above fees. A duplicate copy of this sheet is enclosed.</p> <p>c. <input checked="" type="checkbox"/> The Director is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. <u>50-1619</u>. A duplicate copy of this sheet is enclosed.</p> <p>d. <input checked="" type="checkbox"/> Fees are to be charged to a credit card. <b>WARNING:</b> Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.</p> <p><b>NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.</b></p> <p>SEND ALL CORRESPONDENCE TO:  <b>Licata &amp; Tyrrell P.C.</b>  <b>66 East Main Street</b>  <b>Marlton, New Jersey 08053</b>  <b>Tel: 856-810-1515</b>  <b>Fax: 856-810-1454</b></p> <p>  <b>Kathleen A. Tyrrell</b>  <b>SIGNATURE</b>  <b>NAME</b>  <b>38,350</b></p> <p>REGISTRATION NUMBER</p>						24. <input checked="" type="checkbox"/> Basic national fee . . . . .	\$300	<b>CALCULATIONS</b>	<b>PTO USE</b>		25. <input checked="" type="checkbox"/> Examination fee If International preliminary examination report prepared by USPTO and all claims satisfy provisions of PCT Article 33(1)-(4) . . . . .	\$100	\$	\$200.00		All other situations . . . . .	\$200				26. <input checked="" type="checkbox"/> Search fee Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the USPTO as an International Searching Authority . . . . .	\$100				International Search Report prepared and provided to the Office . . . . .	\$400				All other situations . . . . .	\$500	\$	\$100.00		<b>TOTAL OF 24, 25 and 26 =</b>		\$	\$600.00		Total Sheets	Extra Sheets	Number of each additional 50 or fraction thereof (round up to a whole)	RATE	51 - 100 =	0 /50 =	0	x \$250.00 . \$ 0.00	CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE	Total claims	50 - 20 =	30	x \$50.00 \$ 1,500.00	Independent claims	10 - 3 =	7	x \$200.00 \$ 1,400.00	MULTIPLE DEPENDENT CLAIMS (if applicable)		<input checked="" type="checkbox"/>	+ \$360.00 \$ 360.00	<b>TOTAL OF ABOVE CALCULATIONS =</b>				\$ 3,860.00	<b>SUBTOTAL =</b>		\$ 1,930.00	Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(f)).		\$ 0.00	<b>TOTAL NATIONAL FEE =</b>		\$ 1,930.00	Fee for recording the enclosed assignment (37 CFR 1.21(h)). 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JC17 Rec'd PCT/PTO 14 JUN 2005

CERTIFICATE OF EXPRESS MAILING

"Express Mail" Label No. **EV626224792US**

Date of Deposit: June 14, 2005

I hereby certify that this paper is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 C.F.A. 1.10 on the date indicated above and is addressed to the Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

- 1) Transmittal Letter (in duplicate);
- 2) PCT International Application;
- 3) Unexecuted Declaration and Power of Attorney;
- 4) Preliminary Amendment;
- 5) Statement to Support Filing and Submission in Accordance with 37 CFR §1.821-1.825;
- 6) A computer-readable form of the sequence listing;
- 7) Paper copy of Sequence Listing;
- 8) Information Disclosure Statement/Form PTO 1449 with attachments;
- 9) USPTO Credit Card Payment Form authorizing payment in the amount of \$1,930.00 for filing fees;
- 10) Return Postcard.

  
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Kathleen A. Tyrrell